

Electronic Filing System (EFS) Data Electronic Patent Application Submission USPTO Use Only

EFS ID: 48498

IN SITU THERMAL PROCESSING

OF A COAL FORMATION TO

Title of Invention: INCREASE

PERMEABILITY/POROSITY OF THE

FORMATION

First Named Inventor: Harold Vinegar

Domestic/Foreign Application: Domestic Application

Filing Date: 2001-04-24

Effective Receipt Date: 2003-09-30

Submission Type: Information Disclosure

Statement

Filing Type:

Confirmation number: 4716

Attorney Docket Number: 5659-06000

Total Fees Authorized:

Digital Certificate Holder: cn=Eric B. Meyertons,ou=Registered Attorneys,ou=Patent and Trademark
Office,ou=Department of Commerce.o=U.S. Government.c=US

Certificate Message Digest: fb54105eed6758b31f9aaee55a4380fdfd8869ed

RECENT

OCT 0 2 206.1

GROU



TRANSMITTAL

Electronic Version v1.1 Stylesheet Version v1.1.0

Title of

IN SITU THERMAL PROCESSING OF A COAL FORMATION TO INCREASE PERMEABILITY/POROSITY OF THE FORMATION

Application Number: 09/841284

Date: 2001-04-24

First Named Applicant: Harold

Confirmation Number: 4716
Attorney Docket Number: 5659-06000

RECEIVED

GROUP 3600

I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.

I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.

	Submitted by:	Elec. Sign.	Sign. Capacity	
11	Eric B. Meyertons Registered Number: 34,786	Eric B. Meyertons	Attorney	
	registered Number: 34,760			

Documents being submitted Files

us-ids M1_Q5-usidst.xml

us-ids.dtd us-ids.xsl

Comments



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18 Stylesheet Version v18.0

> Title of Invention

IN SITU THERMAL PROCESSING OF A COAL FORMATION TO INCREASE PERMEABILITY/POROSITY OF THE FORMATION

1 | BOOK DOWN 1884 | 1 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1

OCT 0 2 2003 GROUP 3600

Application Number: 09/841284

Confirmation Number: 4716

First Named Applicant: Harold Vinegar Attorney Docket Number: 5659-06000

Art Unit: 3672

Examiner: George A Suchfield

Search string: (4193451 or 4265307 or 4390067 or 4456065 or 4457374 or 4479541 or 4498535 or 4598770

or 44973/4 or 4479341 or 4498335 or 43987/0 or 4669542 or 4682652 or 4982786 or 5201219 or 5339904 or 3349845 or 1646599 or 3952802 or 4010800 or 3892270 or 3986556 or 4031956

or 4140180 or 4412585 or 4501326 or 4524827 or 4585066 or 4776638 or 4856587 or 5517593 or 5099918 or 5751895 or 6015015 or 6112808 or 3026940 or 3947683 or 3285335 or 3456721 or 2857002 or 3477058 or 3580987 or 5126037

or 3165154 or 4458757 or 4737267 or 4931171 or 4384948 or 3593790 or 3244231 or 3223166

or 3947656).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

1							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	4193451	1980-03-18	Dauphine			
	2	4265307	1981-05-05	Elkins			
	3	4390067	1983-06-28	Wilman			
	4	4456065	1984-06-26	Heim et al.			
	5	4457374	1984-07-03	Hoekstra et al.			
	6	4479541	1984-10-30	Wang			
	7	4498535	1985-02-12	Bridges			
	8	4598770	1986-07-08	Shu et al.			

9 10 11 12 13 14 15 16 17 18 19 20	4669542 4682652 4982786 5201219 5339904 3349845 1646599 3952802 4010800 3892270	1987-06-02 1987-07-28 1991-01-08 1993-04-13 1994-08-23 1967-10-31 1927-10-25 1976-04-27 1977-03-08	Venkatesan Huang et al. Jennings, Jr. Bandurski et al. Jennings, Jr. Holbert et al. Schaefer Terry
11 12 13 14 15 16 17 18 19	4982786 5201219 5339904 3349845 1646599 3952802 4010800	1991-01-08 1993-04-13 1994-08-23 1967-10-31 1927-10-25 1976-04-27	Jennings, Jr. Bandurski et al. Jennings, Jr. Holbert et al. Schaefer
12 13 14 15 16 17 18 19	5201219 5339904 3349845 1646599 3952802 4010800	1993-04-13 1994-08-23 1967-10-31 1927-10-25 1976-04-27	Bandurski et al. Jennings, Jr. Holbert et al. Schaefer
13 14 15 16 17 18 19	5339904 3349845 1646599 3952802 4010800	1994-08-23 1967-10-31 1927-10-25 1976-04-27	Jennings, Jr. Holbert et al. Schaefer
14 15 16 17 18 19	3349845 1646599 3952802 4010800	1967-10-31 1927-10-25 1976-04-27	Holbert et al. Schaefer
15 16 17 18 19	1646599 3952802 4010800	1927-10-25 1976-04-27	Schaefer
16 17 18 19	3952802 4010800	1976-04-27	
17 18 19	4010800		Terry
18 19		1977-03-08	
19	3892270		Terry
		1975-07-01	Lindquist
20	3986556	1976-10-19	Haynes
	4031956	1977-06-28	Terry
21	4140180	1979-02-20	Bridges et al.
22	4412585	1983-11-01	Bouck
23	4501326	1985-02-26	Edmunds
24	4524827	1985-06-25	Bridges et al.
25	4585066	1986-04-29	Moore et al.
26	4776638	1988-10-11	Hahn
27	4856587	1989-08-15	Nielson
28	5517593	1996-05-14	Nenniger et al.
29	5099918	1992-03-31	Bridges et al.
30	5751895	1998-05-12	Bridges
31	6015015	2000-01-18	Luft et al.
32	6112808	2000-09-05	Isted
33	3026940	1962-03-27	Spitz
34	3947683	1976-03-30	Schultz et al.
35	3285335	1966-11-15	Reistle
36	3456721	1969-07-22	Smith
37	2857002	1958-10-21	Pevere et al.
38	3477058	1968-11-04	Vedder et al.
39	3580987	1971-05-04	Priaroggia
40	5126037	1992-06-09	Showalter
41	3165154	1965-01-12	Santourian
	4458757	1984-07-10	Bock et al.
42	4737267	1988-04-12	Pao et al.
42 43	4931171	1990-06-05	Piotter
	31 32 33 34 35 36 37 38 39 40 41	31 6015015 32 6112808 33 3026940 34 3947683 35 3285335 36 3456721 37 2857002 38 3477058 39 3580987 40 5126037 41 3165154 42 4458757 43 4737267	31 6015015 2000-01-18 32 6112808 2000-09-05 33 3026940 1962-03-27 34 3947683 1976-03-30 35 3285335 1966-11-15 36 3456721 1969-07-22 37 2857002 1958-10-21 38 3477058 1968-11-04 39 3580987 1971-05-04 40 5126037 1992-06-09 41 3165154 1965-01-12 42 4458757 1984-07-10 43 4737267 1988-04-12

1 c	ii.			
L	45	4384948	1983-05-24	Barger
	46	3593790	1971-07-20	Herce
	47	3244231	1966-04-05	Grekel et al.
	48	3223166	1965-12-04	Hunt et al.
	49	3947656	1976-03-30	Lodi

Remarks

Note: Remarks are not for responding to an office action.

This IDS is part of a request for continued examination filed on September 29, 2003

Signature

Examiner Name	Date

APP_ID=09841284 Page 3 of 3